SHARDA GLYPHOSATE 360 SL

Reg. No. L8901, Act No. 36 of 1947 | Reg. Nr. L8901, Wet Nr. 36 van 1947

A non-selective systemic post emergence herbicide for the control of annual and perennial weeds in agricultural, forestry and industrial areas and home gardens.

'n Nie-selektiewe sistemiese na-opkoms onkruiddoder vir die beheer van eenjarige en meerjarige onkruide in landbou en bosbou gebiede en industrieële gebiede en huistuine.

HERBICIDE GROUP CODE G

ACTIVE INGREDIENT

Glyphosate acid equivalent ..... 360 g/ℓ
Isopropyl amine salt ..... 480 g/ℓ

ONKRUIDDODER GROEPKODE G

AKTIEWE BESTANDDEEL

Glifosaat suur ekwivalent ..... 360 g/ℓ
Isopropielamiensout ..... 480 g/ℓ

Registration Holder | Registrasiehouer

Sharda International Africa (PTY) LTD
Reg. No./Reg. Nr. 2010/002268/07
P. O. Box/Posbus 82021, Southdale, 2135
Tel: 031-764 3011
Tel: 087-822 2397

BATCH NO. LOT NR.	
EXPIRY DATE VERVAL DATUM	

CONTENTS / INHOUD
20 ℓ

UN No. / VN Nr. 3082

CAUTION
VERSIGTIG

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WARNINGS
- Poisonous if swallowed and can be irritating to eyes.
- **SHARDA GLYPHOSATE 360 SL** can be corrosive to zinc-lined, galvanised or unlined metal spray tanks and equipment. Hydrogen can also be produced which is combustible or explosive.
- Keep out of reach of children, uninformed persons and animals.
- Store away from seed, fertiliser, agricultural chemicals and food.
- **Re-entry:** Do not enter the treated field until the spray deposit has dried unless wearing protective clothing.
- **Aerial application:** Notify all the inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings.
- Glyphosate is a highly active herbicide that, when used incorrectly, can cause serious damage in very small quantities to crop seedlings and deciduous fruit trees and grapevines during the budding and early season growth stages. Under the following conditions it can cause serious damage as far as 5 km from the nearest flight path of the aircraft - cloudy weather with relative humidity above 80 % and low air movement of less than 5 km per hour. Where such conditions prevail aerial application should not be carried out where crop seedlings or deciduous fruit and grape vines in bud or early development stages are present within 5 km of the nearest flight path of the aircraft.

Although this herbicide has been tested on a representative sample of economically important plant varieties under a large variety of soil and climatic conditions, the registration holder does not warrant that this product will be effective and safe to the crop under all conditions because the action and effect of the herbicide is affected by factors such as abnormal soil, climatic and storage conditions, as well as by the method and accuracy of application. The registration holder furthermore does not accept responsibility for either crop damage or non-performance due to failure to follow the label directions or the occurrence of conditions, which the registration holder could not reasonably have foreseen. Consult your supplier in the event of any uncertainty.

PRECAUTIONS
- Wear gloves and a face shield when handling the concentrate.
- Do not inhale spray mist or fumes.
- In the case of accidental skin contact, wash with plenty of soap and water.
- In the case of accidental eye contact, wash with plenty of water for at least 15 minutes and contact a physician.
- Prevent spray drift or contact with non-target grazing or crops as serious damage may result.
- Prevent contamination of foodstuffs, drinking water and eating utensils.
- Rinse empty container three times with a volume of water equal to at least one tenth of that of the container, add the rinsings to the spray tank before perforating and flattening the container. Do not use the container for any other purpose.
- **Resistance warning:** For resistance management, **SHARDA GLYPHOSATE 360 SL** is a group code G herbicide. Any weed population may contain individuals naturally resistant to **SHARDA GLYPHOSATE 360 SL** and other group code G herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **SHARDA GLYPHOSATE 360 SL** or any other group code G herbicide.
  To delay herbicide resistance: Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes. Integrate other control methods (chemical, cultural, biological) into weed control programmes. For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE • USE ONLY AS INDICATED
- **SHARDA GLYPHOSATE 360 SL** is a foliar contact systemic herbicide that has no pre-emergence soil activity.
- **SHARDA GLYPHOSATE 360 SL** should be sprayed to give a fine, even droplet distribution on the target foliage.
- Apply when weeds are growing actively. Young seedling weeds are generally more sensitive than well established mature weeds.
- Spray perennial weeds when the foliage is well developed and/or at initiation of flowering.
- Do not spray weeds that are covered in dust or wet or under temperature or moisture stress.
- Do not spray another pesticide within 12 hours of a **SHARDA GLYPHOSATE 360 SL** application.
- Rain or irrigation within 6 hours can reduce the efficacy of **SHARDA GLYPHOSATE 360 SL**.
- Allow 10 days after pruning vines and tree crops and before spraying **SHARDA GLYPHOSATE 360 SL**.
- Allow 10 days between spraying weeds on sandy soil (under 10 % clay) and planting seedlings.
- The stems of young trees with immature bark and green banana stems and suckers should be protected from spray contact.
- Apply **SHARDA GLYPHOSATE 360 SL** only to weeds in grapevines that are older than 2 years. Weeds in bush and low trellised grapevines should be sprayed before vine bud-burst in spring.

APPLICATION EQUIPMENT
- **SHARDA GLYPHOSATE 360 SL** can be applied by a variety of application equipment such as wipers, hand-held trigger bottles, knapsack sprayers, mist-blowers, tractor mounted boom sprayers, aircraft, etc.
- Thoroughly rinse application equipment with water after use. Dispose of rinse water where it will not damage any vegetation.
- Application equipment must be clean, free of other pesticide residues and dust.
- Always use clean water. In the case of alkaline and/or hard water, it can be adjusted by adding a buffer.
- The addition of 2.0 kg ammonium sulphate per 100 ℓ spray water (2 % solution) before adding the required **SHARDA GLYPHOSATE 360 SL** quantity will assist to overcome the effect of alkaline water and improve compatibility with other herbicides. Always test tank mix compatibility on a small scale before large scale application.

SPRAY VOLUMES
- Small areas and spot spraying: Spray **SHARDA GLYPHOSATE 360 SL** as a percent spray between 1.5 and 4.0 %.
- Large areas: Spray **SHARDA GLYPHOSATE 360 SL** in 12 to 300 ℓ water per ha.
- It is recommended to increase the concentration of the spray solution by using a low spray volume for more reliable control. (e.g. **SHARDA GLYPHOSATE 360 SL** at 2.0 ℓ/ha in 70 litres water/ha = 2.8 % solution; and in 200 ℓ/ha = 1.0 %. The 2.8 % solution will give more reliable weed control.)

AERIAL APPLICATION
Aerial application of **SHARDA GLYPHOSATE 360 SL** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum.
It is therefore essential that the following criteria be met:
- **Volume:** A spray mixture volume of 30 to 50 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 30 to 40 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 300 to 400 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- The use of a suitable drift retardant adjuvant and/or low drift nozzles (e.g. straight stream nozzles) is recommended. In the case of fixed-wing aircraft flying at a speed faster than 130 mph, the maximum deflection angle of the nozzles or spray stream, as measured from a horizontal straight backwards orientation, may not exceed 30 degrees. In the case of slower flying fixed wing aircraft the maximum deflection angle, as described above, may not exceed 55 degrees.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 10 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

DOSAGE RATES
Spot spraying – use percent spray solution recommendations.
Dosage rate range – use the lower recommended rate on smaller weeds and the higher rate on larger plants.

WEED	GROWTH STAGE	DOSAGE RATE (ℓ / ha)	RECOMMENDED SPRAY VOLUMES
Annual weeds	Seedlings up to 8 leaves	1.0 – 2.0	Spray volume: 70 to 200 ℓ/ha
	Over 8 leaves to mature plants	2.0 – 3.0	Spray volume: 70 to 200 ℓ/ha
Perennial weeds	See specific species recommendations below.		
	Seedlings	2.0 – 4.0	Spray volume: 70 to 200 ℓ/ha or 1.5 %
	Mature plants	2.0 – 10.0	Spray volume: 70 to 200 ℓ/ha or 3.0 %

WEED SPECIES	GROWTH STAGE	DOSAGE RATE	REMARKS
Black wattle *Acacia mearnsii*	Seedlings and young plants up to 1 m high.	3.0 ℓ/ha or 1.5 % solution	-
Bramble *Rubus species*	Apply when in flower with maximum leaf area.	6.0 ℓ/ha or 3.0 % solution	Use 4.0 % solution with a mistblower.
Buffalo grass *Panicum maximum*	Seedlings to mature plants.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray at 3.0 ℓ/ha or 1.5 % on re-growth.
Bug weed *Solanum mauritianum*	Seedlings up to 1 m high. Mature trees.	0.5 % solution. 2.0 ℓ/ha or 1.5 % solution	- Cut stems back to 5-20 cm high; wait for re-growth and spray when 25-50 cm long.
Bush buffalo grass *Setaria chevalieri*	Seedlings to mature plants.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray at 3.0 ℓ/ha or 1.5 % on re-growth.
Common quick grass *Cynodon dactylon*	Apply when in flower with maximum leaf area.	6.0 ℓ/ha or 3.0 % solution (9.0 ℓ/ha in winter rainfall areas)	Apply in late summer/autumn before frost. Repeat as a follow-up spray at 4.0 ℓ/ha or 2.0 % on re-growth.
Common paspalum *Paspalum dilatatum*	Apply when in flower before seed shed.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray at 3.0 ℓ/ha or 1.5 % on re-growth.
Common reed *Phragmites australis*	Apply when 20 to 30 % flowering.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray on re-growth at 3.0 % knapsack or 4.0 % mistblower.
Couch paspalum *Paspalum paspaloides*	Apply when in flower before seed shed.	8.0 ℓ/ha (9.0 ℓ/ha in winter rainfall areas)	Repeat as a follow-up spray at 4.0 ℓ/ha or 2.0 % on re-growth. Apply in autumn before frost.
Eupatorium, Triffid weed *Chromolaena odorata*	Slash established plants; allow re-growth to 50-120 cm; then spray re-growth.	1.0 %	Repeat as a follow-up spray at 1.0 % on re-growth.
Fleabane *Conyza species*	Seedlings to mature plants.	2.0 to 3.0 ℓ/ha	-
Field bindweed *Convolvulus arvensis*	Apply when flowering starts.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray at 1.5 % on re-growth.
Ink berry *Phytolacca heptandra*	Seedlings to mature plants.	3.0 ℓ/ha or 1.5 % solution	-
Johnson grass *Sorghum halapense*	Seedlings to mature plants.	4.0 ℓ/ha or 1.5 % solution	Repeat as a follow-up spray at 3.0 ℓ/ha or 1.5 % on re-growth.
Kikuyu *Pennisetum clandestinum*		4.0 ℓ/ha or 1.5 % solution	Apply on actively growing plants in summer/autumn before frost. Repeat on re-growth.
Lantana *Lantana camara*	Seedlings to mature plants.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray on re-growth at 3.0 % knapsack or 4.0 % mistblower.
Mauritius thorn *Caesalpinea decapetula*	Seedlings to mature plants.	3.0 ℓ/ha or 1.5 % solution	Large plants – Cut stems back to 5-20cm high; wait for re-growth and spray when 25-50 cm long.
Nutsedge, purple *Cyperus rotundus*	Apply when plants are in flower.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray at 3.0 ℓ/ha or 1.5 % on re-growth.
Nutsedge, yellow *Cyperus esculentus*	Apply when plants are in flower.	6.0 ℓ/ha or 3.0 % solution	Repeat as a follow-up spray at 3.0 ℓ/ha or 1.5 % on re-growth.
Plantain *Plantago lanceolata*	Spray before flowering.	3.0 ℓ/ha or 1.5 % solution	-
Port Jackson willow *Acacia saligna*	Bipinnate seedlings. Seedlings up to 60 cm high.	2.0 ℓ/ha or 1.5 % solution 4.0 ℓ/ha or 1.5 % solution	-
Sorrel *Rumex species*	Spray before flowering.	3.0 ℓ/ha or 1.5 % solution	-
Sesbania *Sesbania punicea*	Seedlings up to 1 m high. Seedlings over 1 m high Shrubs and trees.	3.0 ℓ/ha or 1.5 % solution 3.0 ℓ/ha or 2.0 % solution 1.5 – 2.0 % solution	Large plants – Cut stems back to 5-20cm high; wait for re-growth and spray when 50 cm to 1 m long.
Small mallow *Malva parviflora*	Spray before flowering.	3.0 ℓ/ha or 1.5 % solution	Spray only in a tank mix with the recommended simazine rate.
Water hyacinth *Eichhornia crassipes*	Apply when foliage is well developed.	6.0 ℓ/ha or 3.0 % solution	Apply as 3.0 % solution in knapsack or 4.0 % in mistblower.
Weeping love grass *Eragrostis curvula*	Seedlings to mature plants.	2.0 ℓ/ha or 1.5 % solution	-
Wild grain sorghum *Sorghum bicolor*	Seedlings to mature plants.	2.0 ℓ/ha or 1.5 % solution	-

EUCALYPTUS STUMP ERADICATION	DOSAGE	REMARKS
Cut stumps as close to the soil surface as possible. Remove sawdust from the cut surface to be treated. If re-growth occurs, spray it at 20 to 50 cm length.		Apply the solution to the entire cut surface (especially where the bark and wood meet) within 30 minutes of felling for optimum results and up to 6 hours after felling. [Two applications 10 minutes apart have shown to greatly reduce re-growth.]
Single stem stumps (never coppiced)	5.0 %	Apply ± 50 mℓ per stump. Spot-spray any re-growth with a 2.0 % solution.
Multi-stem stumps	7.0 %	Apply ± 100 mℓ or more per stump depending on stump size. Spot-spray any re-growth with a 2.0 % solution.

SUGARCANE ERADICATION	DOSAGE	REMARKS
		The dosage rate is dependant on the sugarcane variety. Consult the supplier for recommendations.
Last ratoon cane eradication	8.0 – 10.0 ℓ/ha	Apply after the final harvest when cane re-growth is 40-50 cm high and when tillering is complete. Apply in 100-400 ℓ/ha to give complete spray cover of foliage.
Combination tillage (last ratoon)	4.0 – 8.0 ℓ/ha	Apply after the final harvest when cane re-growth is 40-100 cm high and when tillering is complete. Apply in 100-400 ℓ/ha to give complete spray cover of foliage. Shear the cane stool with a subsurface blade at a depth of 10-15 cm at 1 to 10 days after spraying.
Spot eradication	10.0 %	Apply as a full cover spot spray to leaves of diseased or off-type stools.
Pre-plant weed control Field head-land weed control	Apply for the species present as recommended above.	

CROP USE

Tree Crops: SHARDA GLYPHOSATE 360 SL can be used in various crops provided that there is no direct contact of the herbicide solution with the crop. Do not allow spray contact with green or immature bark, leaves or fruit of desirable plants. **SHARDA GLYPHOSATE 360 SL** can be used in the following crops – almonds, aloes, apples, apricots, avocado, bananas, blackberry, cherries, citrus, coffee, deciduous fruit, grapevines, granadilla, guava, hops, kiwi fruit, litchis, macadamia nuts, mangoes, nectarines, olives, pawpaw, peaches, pears, pecan nuts, pineapples, plums, prickly pears, prunes, quince, sisal, tea.

Annual Crops: SHARDA GLYPHOSATE 360 SL can be applied for pre-plant weed control after seedbed preparation or in a reduced/no-tillage situation before planting the crop. Use the annual and/or perennial weed control recommendation above.

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'n Nie-selektiewe sistemiese na-opkoms onkruiddoder vir die beheer van eenjarige en meerjarige onkruide in landbou en bosbou gebiede en industrieële gebiede en huistuine.

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WAARSKUWINGS
- Giftig indien deur die mond ingeneem en, in die geval van direkte kontak, kan irritasie van die oë veroorsaak.
- **SHARDA GLYPHOSATE 360 SL** kan bytend inwerk op versinkte, gegalvaniseerde en voeringlose metaal houers sowel as in spuitkanne en ander toerusting. Dit kan ook ontvlambare en ontplofbare waterstofgas afgee.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Moet nie saam met saad, kunsmis of ander landbou-chemikalieë geberg word nie.
- **Herbetreding:** Moenie die behandelde area betree alvorens die spuitneerslag nie droog is nie, tensy beskermende klerasie gedra word.
- **Lugtoediening:** Stel alle inwoners in die onmiddellike omgewing van die voorgenome bespuitingsgebied in kennis en reik die nodige waarskuwings uit.
- Glifosaat is 'n baie aktiewe onkruiddoder wat, indien dit verkeerdelik aangewend word, ernstige skade kan veroorsaak aan gewassaailinge en sagte vrugteboorde en wingerde tydens bot en vroeë seisoensgroei. Onder die volgende klimaatstoestande kan glifosaat wat met 'n vliegtuig toegedien word, dus ernstige skade aanrig sover as tot 5 km vanaf die naaste vlugbaan - bewolkte weer met relatiewe humiditeit hoër as 80 % en stadige lugbeweging van minder as 5 km per uur. Waar sulke toestande voorkom en gewassaailinge of sagte vrugteboorde of wingerde in bot en vroeë seisoensgroei binne 5 km vanaf die naaste vlugbaan van die vliegtuig voorkom, moet glifosaat nie toegedien word nie.

Alhoewel hierdie onkruiddoder op 'n verteenwoordigende reeks ekonomies belangrike plantvariëteite onder 'n groot verskeidenheid grond- en klimaatstoestande getoets is, waarborg die registrasiehouer nie dat hierdie produk onder alle omstandighede doeltreffend en veilig op die gewas sal wees nie omdat die uitwerking van die onkruiddoder deur faktore soos abnormale grond-, klimaats- en bergingstoestande sowel as metode en akkuraatheid van toediening beïnvloed word. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir gewasskade of vir ondoeltreffendheid as gevolg van 'n versuim om die etiket aanbevellings na te volg of as gevolg van die bestaan van toestande wat die registrasiehouer nie redelikerverwys kon voorsien nie. Raadpleeg u verskaffer in geval van enige onsekerheid.

VOORSORGMAATREËLS
- Dra handskoene en 'n gesigskerm wanneer die konsentraat hanteer word.
- Voorkom die inaseming van sproei of dampe
- In die geval van velkontak, was deeglik met seep en baie water.
- In die geval van oogkontak, spoel deeglik met baie water vir ten minste 15 minute en raadpleeg daarna 'n medikus.
- Voorkom spuitwegdrywing of kontak van die spuitmis met nie-teiken weiding of gewasse aangesien dit ernstige skade kan veroorsaak.
- Voorkom besoedeling van voedsel, drinkwater of eetgerei.
- Spoel leë houers drie maal uit met 'n volume skoon water gelyk aan ten minste 10 % van die inhoud van die houer. Maak die houers na elke spoel leeg in die spuitkan wat gebruik word. Nadat houers behoorlik uitgespoel is, moet dit vol gate gekap en plat gedruk word. Moet nie die houers vir enige ander doel gebruik nie.
- **Weerstandswaarskuwing: SHARDA GLYPHOSATE 360 SL** is 'n groepkode G onkruiddoder. Enige populasie van 'n spesifieke onkruid mag individuë insluit wat 'n natuurlike weerstand het teen **SHARDA GLYPHOSATE 360 SL** sowel as enige ander groepkode G onkruiddoders. Indien hierdie onkruiddoders herhaaldelik aangewend word, kan die weerstandbiedende individuë uiteindelik die onkruid populasie oorheers. Hierdie weerstandbiedende onkruide sal waarskynlik nie deur **SHARDA GLYPHOSATE 360 SL** of enige ander groepkode G onkruiddoder beheer word nie.
  Om weerstand teen onkruiddoders te vertraag: Vermy die eksklusiewe herhaaldelike gebruik van onkruiddoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruiddoder groepkodes. Integreer ander beheermaatreëls (chemies, verbouing, biologies) in die onkruiddoder programme. Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS • GEBRUIK SLEGS SOOS AANGEDUI
- **SHARDA GLYPHOSATE 360 SL** is 'n blaartoegediende sistemiese onkruiddoder met geen effek in die grond voor opkoms.
- **SHARDA GLYPHOSATE 360 SL** moet gespuit word om 'n fyn egalige druppelverspreiding op die teiken blare te gee.
- Spuit terwyl onkruide aktief groei. Oor die algemeen is jong saailing onkruide meer sensatief as gevestigde volwasse onkruide.
- Spuit meerjarige onkruid as die blaargroei goed ontwikkel is en/of wanneer die onkruid begin blom het.
- Moet nie spuit wanneer die onkruide met stof bedek is of nat is of onder hitte of waterstremming verkeer nie.
- Moenie 'n ander plaagdoder binne 12 uur na die bespuiting van **SHARDA GLYPHOSATE 360 SL** spuit nie.
- Reën of besproeiing binne 6 uur na 'n **SHARDA GLYPHOSATE 360 SL** bespuiting mag die doeltreffendheid nadelig beïnvloed.
- Laat 10 dae toe tussen die snoei van wingerd en boom gewasse en bespuiting.
- Laat 10 dae toe tussen die bespuiting van onkruid op sanderige gronde (onder 10 % klei) en die uitplant van saailinge.
- Die stamme van onvolwasse bome en die groen stamme en suiers van piesangs moet teen spuitoplossing kontak beskerm word.
- Dien **SHARDA GLYPHOSATE 360 SL** toe slegs op onkruid in wingerd wat ouer as 2 jaar is. Onkruid in bosstok en laagopgeleide wingerd moet voor bot in vroeë lente bespuit word.

TOEDIENING
- **SHARDA GLYPHOSATE 360 SL** kan met 'n verskeidenheid van toediening toerusting soos wipers, handspuitbottels, rugsakspuite, newelblasers, trekker spuitbalke, vliegtuie, ens. toegedien word.
- Na gebruik maak die toedieningsapparaat met water deeglik skoon. Raak ontslae van die spoelwater waar dit nie plantegroei sal beskadig nie.
- Toediening toerusting moet skoon, vry van plaagdoder residue en stof wees.
- Gebruik altyd skoon water. In die geval van alkaliese en/of harde water, dit kan met 'n buffer reggestel word.
- Die byvoeging van 2.0 kg ammoniumsulfaat per 100 ℓ spuitwater (2 % oplossing) voor die byvoeging van **SHARDA GLYPHOSATE 360 SL** in die spuitwater kan die nadelige effek van alkalise water teenwerk en vereenigbaarheid met ander onkruiddoders verbeter. Dit is raadsaam om die vereenigbaarheid van 'n tenkmengsel op 'n klein skaal te toets voordat dit op 'n groot skaal bespuit word.

SPUITVOLUMES
- Klein areas en kolbespuiting: Spuit **SHARDA GLYPHOSATE 360 SL** teen 'n persentasie tussen 1.5 en 4.0 % toe.
- Groot areas: Spuit **SHARDA GLYPHOSATE 360 SL** in 12 tot 300 ℓ water per ha toe.
- Dit word aanbeveel om die spuitoplossing konsentrasie te verhoog deur 'n lae spuitvolume te gebruik om meer betroubare beheer te verkry. (bv. **SHARDA GLYPHOSATE 360 SL** teen 2.0 ℓ/ha in 70 liter water/ha = 2.8 % oplossing; en in 200 ℓ/ha = 1.0 %. Die 2.8 % oplossing sal meer betroubare beheer gee.)

LUGTOEDIENING
SHARDA GLYPHOSATE 360 SL kan slegs deur 'n geregistreerde Lugbespuitingsperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:
- **Volume:** 'n Spuitmengsel volume van 30 tot 50 liter per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 30 tot 40 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 300 tot 400 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Die gebruik van 'n geregistreerde drywingsbeheer middel en/of lae drywing lugbespuiting spuitneuse (bv. "straight stream nozzles") word aanbeveel. In die geval van vastevlerk vliegtuie met 'n vliegspoed hoër as 130 mph, mag die defleksiehoek van die spuitneuse of spuitstroom, soos gemeet vanaf 'n horisontale reguit orientasie na agter, nie 30 grade oorskry nie. In die geval van vastevlerk vliegtuie wat stadiger vlieg, mag die defleksiehoek, soos hierbo beskryf, nie 55 grade oorskry nie.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik nie, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binnste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihigrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 10 km/h oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80 % en meer) mag tot volgende probleme aanleiding gee:
  a) verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
  b) skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

DOSIS
Kol bespuiting – gebruik die persentasie oplossing aanbevelings.
Dosis rang – gebruik die laer dosis op klein onkruide en die hoër dosis op groter plante.

ONKRUID	GROEI STADIUM	DOSIS	SPUITVOLUMES
Eenjarige onkruide	Saailinge tot 8 blare	1.0 – 2.0 ℓ/ha	Spuitvolume: 70 to 200 ℓ/ha
	Meer as 8 blare tot volwasse plante	2.0 – 3.0 ℓ/ha	Spuitvolume: 70 to 200 ℓ/ha
Meerjarige onkruide	Sien spesifieke spesies aanbevelings hieronder.		
	Saailinge	2.0 – 4.0 ℓ/ha	Spuitvolume: 70 tot 200 ℓ/ha of 1.5 %
	Volwasse plante	2.0 – 10.0 ℓ/ha	Spuitvolume: 70 tot 200 ℓ/ha of 3.0 %

ONKRUID SPESIES	GROEI STADIUM	DOSIS	OPMERKINGS
Akkerwinde *Convolvulus arvensis*	Bespuit sodra begin blom.	6.0 ℓ/ha of 3.0 % oplossing	Herhaal as 'n opvolg bespuiting teen 1.5 % op hergroei.
Brame *Rubus spesies*	Dien toe tydens blom en volle blaar ontwikkeling.	6.0 ℓ/ha of 3.0 % oplossing	Gebruik 4.0 % oplossing met 'n newelblaser.
Buffelsgras *Panicum maximum*	Saailinge tot volwasse plante.	6.0 ℓ/ha of 3.0 % oplossing	Herhaal as 'n opvolg bespuiting teen 3.0 ℓ/ha of 1.5 % op hergroei.
Bosbuffelsgras *Setaria chevalieri*	Saailinge tot volwasse plante.	6.0 ℓ/ha of 3.0 % oplossing	Herhaal as 'n opvolg bespuiting teen 3.0 ℓ/ha of 1.5 % op hergroei.
Eupatorium *Chromolaena odorata*	Kap gevestigde plante en spuit hergroei by 50-120 cm; herhaal as 'n opvolg bespuiting teen 4.0 ℓ/ha of 2.0 % op hergroei.	1.0 %	Herhaal as 'n opvolg bespuiting teen 1.0 % op hergroei.
Fluitjiesriet *Phragmites australis*	Dien toe met 20 to 30 % blomstadium.	6.0 ℓ/ha of 3.0% oplossing	Herhaal as 'n opvolg bespuiting teen 3.0 % rugsak of 4.0 % newelblaser op hergroei.
Geeluintjie *Cyperus esculentus*	Dien toe met blom.	6.0 ℓ/ha of 3.0% oplossing	Herhaal as 'n opvolgbespuiting met 3.0 ℓ/ha of 1.5 % op hergroei.
Inkbossie *Phytolacca heptandra*	Saailinge tot volwasse plante.	3.0 ℓ/ha of 1.5% oplossing	-
Johnsongras *Sorghum halepense*	Saailinge tot volwasse plante.	4.0 ℓ/ha of 1.5% oplossing	Herhaal as 'n opvolgbespuiting agree 3.0 ℓ/ha of 1.5 % op hergroei.
Kiesieblaar *Malva parviflora*	Spuit voor blom.	3.0 ℓ/ha of 1.5% oplossing	Spuit slegs in 'n tenkmengsel met die aanbevole simazine dosis.
Kikoejoe *Pennisetum clandestinum*		4.0 ℓ/ha of 1.5% oplossing	Dien toe op aktief groeiende plante in somer/herfs voor ryp. Herhaal op hergroei.
Kraaldoring *Caesalpinea decapetala*	Saailinge tot volwasse plante.	3.0 ℓ/ha of 1.5% oplossing	Groot plante - kap stam terug tot 5-20 cm hoogte; wag vir hergroei en spuit wanneer lote 25-50 cm lank is.
Kweek *Cynodon dactylon*	Dien toe tydens blom en maksimum blaaroppervlakte.	6.0 ℓ/ha of 3.0% oplossing (9.0 ℓ/ha in winter reënval gebiede)	Dien toe in laat somer/herfs voor ryp. Herhaal as 'n opvolg bespuiting teen 4.0 ℓ/ha of 2.0 % op hergroei.
Kweekpaspalum *Paspalum paspaloides*	Dien toe tydens blom en voor saadval.	8.0 ℓ/ha (9.0 ℓ/ha in winter reënval gebiede)	Herhaal as 'n opvolg bespuiting teen 4.0 ℓ/ha of 2.0 % op hergroei. Dien toe in herfs voor ryp.
Lantana *Lantana camara*	Saailinge tot volwasse plante.	6.0 ℓ/ha of 3.0% oplossing	Herhaal as 'n opvolg bespuiting teen 3.0 % rugsak of 4.0 % newelblaser op hergroei.
Luis boom *Solanum mauritianum*	Saailinge tot by 1m hoog. Volwasse bome.	0.5 % oplossing 2.0 ℓ/ha of 1.5 % oplossing.	- Kap stame terug tot 5-20 cm hoogte; wag vir hergroei en spuit sodra dit 25-50 cm lank is.
Oulandsgras *Eragrostis curvula*	Saailinge tot volwasseplante.	2.0 ℓ/ha of 1.5 % oplossing	-
Polpaspalum *Paspalum dilatatum*	Dien toe met blom voor saadval.	6.0 ℓ/ha of 3.0 % oplossing	Herhaal as 'n opvolg bespuiting teen 3.0 ℓ/ha of 1.5 % op hergroei
Port Jackson *Acacia saligna*	Twee-blaar saailinge. Saailinge tot by 60 cm hoog.	2.0 ℓ/ha of 1.5 % oplossing 4.0 ℓ/ha of 1.5 % oplossing	-
Rooiuintjie *Cyperus rotundus*	Dien toe met blom.	6.0 ℓ/ha of 3.0 % oplossing.	Herhaal as 'n opvolgbespuiting met 3.0 ℓ/ha of 1.5 % op hergroei.
Sesbania *Sesbania punicea*	Saailinge tot 1 m hoog. Saailinge grooter as 1m hoog. Struike en bome.	3.0 ℓ/ha of 1.5 % oplossing 3.0 ℓ/ha of 2.0 % oplossing 1.5 – 2.0 % oplossing	Groot plante - kap stam terug tot 5-20 cm hoogte; wag vir hergroei en spuit wanneer lote 50-100 cm lank is.
Skraalhans *Conyza spesies*	Saailinge tot volwasse plante.	2.0 to 3.0 ℓ/ha	-
Steenboksuring *Rumex spesies*	Spuit voor blom.	3.0 ℓ/ha of 1.5 % oplossing.	-
Swartwattel *Acacia mearnsii*	Saailinge en jong plante tot 1 m hoog.	3.0 ℓ/ha of 1.5 % oplossing.	-
Tongblaar *Plantago lanceolata*	Spuit voor blom	3.0 ℓ/ha of 1.5 % oplossing.	-
Water hiasint *Eichhornia crassipes*	Dien toe wanneer die blare goed ontwikkel is.	6.0 ℓ/ha of 3.0 % oplossing	Herhaal as 'n opvolg bespuiting teen 3.0 % (rugsak) of 4.0 % (newelblaser) op hergroei.
Wilde graansorghum *Sorghum bicolor*	Saailinge tot volwasseplante.	2.0 ℓ/ha of 1.5 % oplossing	-

BLOEKOM STOMP UITWISSING	DOSIS	OPMERKINGS
Kap stompe so na aan die grond oppervlakte as moontlik. Verwyder saagsels van die gekapte vlak wat behandel moet word. Indien hergroei plaasvind, spuit dit by 20 tot 50 cm lootlengte.		Dien die oplossing oor die hele gekapte oppervlakte (veral waar die bas en hout mekaar ontmoet) binne 30 minute van afkap vir optimum resultate en tot by 6 uur na afkap. [Twee toedienings 10 minute uitmekaar uit het 'n groot afname in hergroei bewys.]
Enkelstam stompe (wat nooit hergroei het nie)	5.0 %	Dien ± 50 mℓ per stomp. Spuit enige hergroei met 'n 2.0 % oplossing as 'n kolbespuiting.
Meervoudige stam stompe	7.0 %	Dien ± 100 mℓ of meer per stomp afhangend van stomp grootte. Spuit enige hergroei met 'n 2.0 % oplossing as 'n kolbespuiting.

SUIKERRIET UITWISSING	DOSIS	OPMERKINGS
		Die dosis is afhanklik van die suikerriet variëteit. Raadpleeg die verskaffer vir aanbevelings.
Laaste ratoen riet uitwissing	8.0 – 10.0 ℓ/ha	Spuit op die 40-50 cm riet (hergroei) van die laaste ratoen en wanneer die stoelstadium voltooi is. Dien in 100-400 ℓ/ha toe om volledige spuitbedekking van die blare te gee.
Kombinasie bewerking (laaste ratoen)	4.0 – 8.0 ℓ/ha	Spuit op die 40-100 cm riet (hergroei) van die laaste ratoen en wanneer die stoelstadium voltooi is. Dien in 100-400 ℓ/ha toe om volledige spuitbedekking van die blare te gee. Sny die rietstoel met 'n lem op 'n diepte van 10-15 cm 1 tot 10 dae na bespuiting.
Kol uitwissing	10.0 %	Dien toe as 'n kolbespuiting op blare van besmette of aftipe plante. Verseker volle bedekking van die blare met die spuitmengsel.
Voorplant onkruidbeheer Landery wenakker onkruidbeheer	Dien toe vir die spesies teenwordig soos hierbo aanbeveel.	

GEWAS GEBRUIKE

Boom Gewasse: SHARDA GLYPHOSATE 360 SL kan in 'n verskeidenheid van gewasse gebruik word sodra daar geen direkte kontak is tussen die onkruiddoder en die gewas. Verseker dat daar geen kontak is met die onkruiddoder op groen of onvolwasse bas, blare, of vrug van die gewas. **SHARDA GLYPHOSATE 360 SL** kan op die volgende gewasse gebruik word – aalwyne, amandels, appels, appelkose, avocado, brame, granadella, hops, kaalperskes, kersies, kiwi vrug, koejawel, koffie, kwepers, lietsjies, makadamia neute, olywe, papaja, perskes, pere, pekanneute, piesangs, pruime, pruimedante, pynappels, sagte vrugte, sisal, sitrus, tee, turksvye, veselperskes, wingerd.

Eenjarige Gewasse: SHARDA GLYPHOSATE 360 SL kan as 'n voorplant onkruidbeheer behandeling na saadbedvoorbereiding of in 'n minimum/geen bewerking sisteem toegedien word. Gebruik die eenjarige en/of die meerjarige onkruidbeheer aanbevelings hierbo.